

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

110186.53659C23

APPLICATION NO.

10/775,897

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Donald B. Axworthy et al.

FILING DATE

February 10, 2004

GROUP ART UNIT

4642 1644

U.S. PATENT DOCUMENTS

INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>DWS</i>	AA	4,639,365	01/27/87	Sherry	424	9.363	
	AB	4,647,447	03/03/87	Gries et al.	424	9.36	
	AC	4,833,251	05/23/89	Musso et al.	548	304.1	
	AD	4,863,713	09/05/89	Goodwin et al.	424	1.1	
	AE	4,895,955	01/23/90	Ford et al.	548	304.1	
	AF	4,898,951	02/06/90	Symons	548	304.1	
	AG	5,141,966	08/25/92	Porath	521	32	
	AH	5,256,395	10/26/93	Barbet et al.	424	1.57	
	AI	5,326,778	07/05/94	Rosebrough	514	387	
	AJ	5,482,698	01/09/96	Griffiths	424	1.41	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
<i>DWS</i>	AK	EP 251 494	01/07/88	EPO		
	AL	EP 327 365	08/09/89	EPO		
	AM	EP 451 824	10/16/91	EPO		
	AN	EP 496 074	07/29/92	EPO		
	AO	WO 88/08422	11/03/88	WIPO		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>DWS</i>	AP	Axworthy et al., "Antibody Pretargeting For Radioimmunotherapy: A Three-Step Approach In Tumored Nude Mice," <i>The Journal Of Nuclear Medicine; Proceedings Of The 39th Annual Meeting</i> 33: p. 880, Abstract No. 234, 1992.
	AQ	Chatterjee, <i>Cancer Immunol. Immunother.</i> 38: 75-82, 1994.
	AR	Curti, <i>Crit. Rev. Oncol./Hematol.</i> 14: 29, 1993.

EXAMINER

DATE CONSIDERED

*David A. Saunders**11/9/04*

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

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INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>				APPLICANTS Donald B. Axworthy et al.			
				FILING DATE February 10, 2004		GROUP ART UNIT 1642	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	5,525,338	06/11/96	Goldenberg	424	178.1	
	BB	5,690,907	11/25/97	Lanza	424	9.5	
	BC	5,736,119	04/07/98	Goldenberg et al.	424	1.53	
	BD	6,120,768	09/19/00	Griffiths et al.	424	178.1	
	BE						
	BF						
	BG						
	BH						
	BI						
	BJ						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
	BK	WO 89/10140	11/02/89	WIPO	YES	NO	
	BL	WO 90/12050	10/18/90	WIPO			
	BM	WO 92/12730	08/06/92	WIPO			
	BN	WO 93/15210	08/05/93	WIPO			
	BO	WO 94/17829	08/18/94	WIPO			
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	BP	Galli et al., "A Radiopharmaceutical For The Study Of The Liver: ^{99m} Tc-DTPA-ASIALO-OROSOMUCOID. II: Human Dynamic and Imaging Studies," <i>The Journal Of Nuclear Medicine And Allied Sciences</i> 32: 117-126, 1988.					
	BQ	Goldberg, CA-A Cancer Journal for Clinicians, 44:43, 1994.					
	BR	Goodwin et al., "Pharmacokinetics of Biotin-Chelate Conjugates for Pretargeted Avidin-biotin Immunoscintigraphy," <i>J. Nucl. Med.</i> : p. 880, Abstract No. 232, 1992.					
EXAMINER <i>David A. Saunders</i>				DATE CONSIDERED <i>11/15/04</i>			
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APPLICANTS
Donald B. Axworthy et al.FILING DATE
February 10, 2004GROUP ART UNIT
1642

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA						
	CB						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	CC					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>2008</i>	CD	Goodwin, "New Methods for Localizing Infection: A role for Avidin-Biotin,?" <i>J. Nucl. Med.</i> 33(10): 1816-1818, 1992.
	CE	Goodwin/Hnatowich, Letter to the Editor/Reply, <i>J. Nucl. Med.</i> 32(4): 750-751, 1991.
	CF	Green, "The Use of [¹⁴ C]Biotin for Kinetic Studies and for Assay," <i>Biochem. J.</i> 89: 585, 1963.
	CG	Harris et al., <i>Tibtech</i> 11: 42, 1993.
	CH	Hnatowich et al., "Investigations of Avidin and Biotin for Imaging Applications," <i>J. Nucl. Med.</i> 28(8): 1294-1302, 1987.
	CI	Jain, <i>Scientific American</i> 271(1): 58, 1994.
	CJ	Jokiranta et al., "Biotinylation of Monoclonal Antibodies Prevents Their Ability to Activate the Classical Pathway of Complement," <i>The Journal of Immunology</i> 151(4): 1'14-2131, 1993.
	CK	Kalofonos et al., "Imaging of Tumor in Patients with Indium-111-Labeled Biotin and Streptavidin-Conjugated Antibodies: Preliminary Communication," <i>J. Nucl. Med.</i> 31(11): 1791-1796, 1990.
	CL	Koch and Macke, "99m-Tc Labeled biotin conjugates in a Tumor "Pretargeting" Approach with Monoclonal Antibodies," <i>Angew. Chem. Intl. Ed. Engl.</i> 31(11): 1507-1509, 1992.
	CM	Kricka et al., "Survey of Methods of Measuring Human Anti-Mouse Antibodies," HAMA Survey Group, <i>Clinica Chimica Acta.</i> 215: 153-163, 1993.
	CN	McMurry et al., "Covenient Synthesis of Bifunctional Tetraaza Macrocycles," <i>Bioconjugate Chem.</i> 3(2): 108-117, 1992.
✓	CO	Osband et al., <i>Immunol. Today</i> 11: 193, 1990.

EXAMINER

Gaird A. Saunders

DATE CONSIDERED

11/15/04

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DA						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
DB					

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DC	Paganelli et al., "Intraperitoneal Radio-Localization of Tumors Pre-Targeted by Biotinylated Monoclonal Antibodies," <i>Int. J. Cancer</i> 45: 1184-1189, 1990.
DD	Paganelli et al., "Monoclonal antibody pretargeting techniques for tumour localization: the avidin-biotin system," <i>Nuclear Medicine Communications</i> 12: 211-234, 1991.
DE	Renn and Meares, "Large-Scale Synthesis of Bifunctional Chelating Agent 2-(p-Nitrobenzyl)-1,4,7,10-tetraazacyclododecane-N,N',N'',N'''-tetraacetic Acid, and the Determination of Its Enantiomeric Purity by Chiral Chromatography," <i>Bioconjugate Chem.</i> 3(6): 563-569, 1992.
DF	Rosario et al., "Bolton-Hunter and Biotin Derivatized Polylysine: A New Multi-Valent Peptide Reagent for <i>In Vivo</i> Pre-Targeting with Streptavidin Conjugates," <i>J. Nucl. Med.</i> 32(5): p. 993, Abstract No. 356, 1991.
DG	Rosebrough, "Plasma Stability and Pharmacokinetics of Radio-labeled Deferoxamine-Biotin derivatives," <i>J. Nucl. Med.</i> : p. 880, Abstract No. 235, 1992.
DH	Sanderson et al., "Preparation And Characterization Of Biotin conjugates Of Anti-Pan-Carcinoma NR-LU-10 Monoclonal Antibody For A Three Step radioimmunotherapy," <i>The Journal Of Nuclear Medicine; Proceedings Of The 39th Annual Meeting</i> 33: p. 880, Abstract No. 233, 1992.
DI	Van der Sluijs et al., "Drug Targeting to the Liver with Lactosylated Albumins: Does the Glycoprotein Target the Drug or is the Drug Targeting the Glycoprotein," <i>Hepatology</i> 6(4): 723-728, 1986.
DJ	Virzi et al., "New Indium-111 Labeled Biotin Derivatives for Improved Immunotargeting," <i>Nucl. Med. Biol.</i> 18(7): 719-726, 1991.
DK	Virzi et al., "The Preparation and Evaluation of 12 Biotin Derivatives labeled with Tc-99M," <i>J. Nucl. Med.</i> : p. 920, Abstract No. 403, 1992.
DL	Wolf et al., <i>Methy. Enzym.</i> 184: 103, 1990.
DM	Wu et al., "Investigations of N-Linked Macrocycles for ¹¹¹ In and ⁹⁰ Y Labeling of Proteins," <i>Nucl. Med. Biol. Int. J. Radiat. Appl. Instrum. Part B</i> 19(2): 239-244, 1992.
DN	Zwierzina, <i>StemCells</i> 11: 144, 1993.

EXAMINER <i>Sandra A. Saunders</i>	DATE CONSIDERED 11/15/04
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